

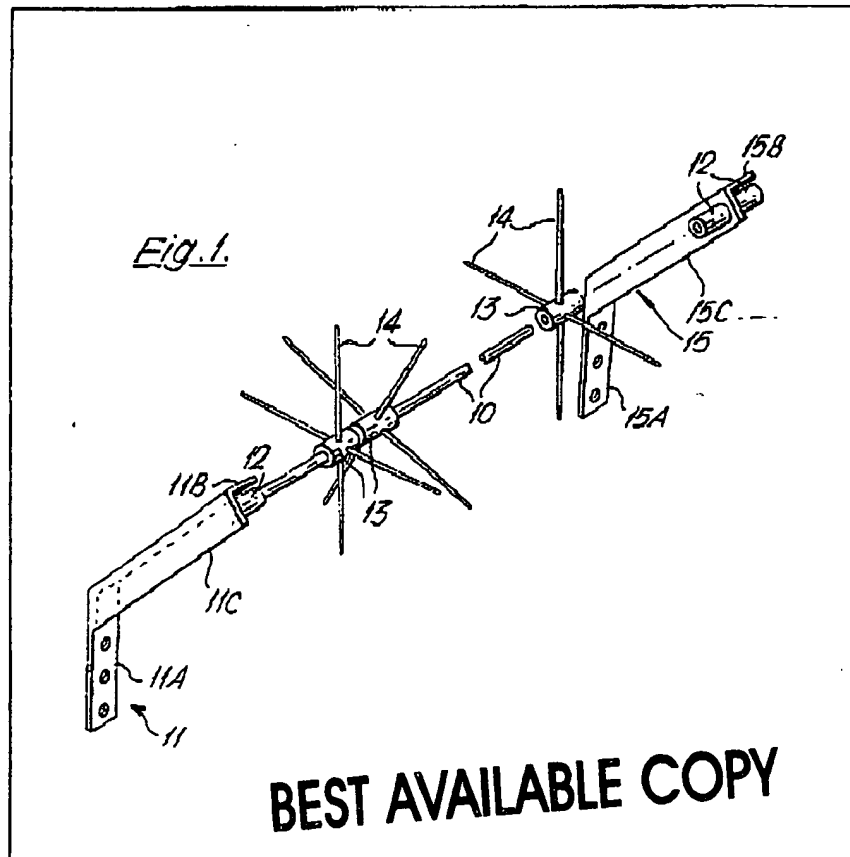
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(54) Wall apparatus to deter climbing

(57) A wall-mountable apparatus to deter climbing comprises a rod 10 supported by two or more wall-mountable brackets (11) for mounting the rod (10) on a wall with its axis

parallel thereto. The rod (10) carries along its length a series of collars (13) from which four equi-spaced fingers (14) radially protrude. The collars (13) are freely rotatable relative to each other and to the rod (10). Washers can be located one between adjacent collars (13).



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## SPECIFICATION

## Wall-mountable apparatus to deter climbing

This invention relates to wall-mountable apparatus to deter climbing up and over walls to which it is secured. The apparatus can be mounted to fences or other types of barrier, and the invention is to be construed accordingly.

Heretofore, wall-mountable anti-intruder barriers or anti-scaling devices have been proposed, each comprising a shaft, rod or other elongate cylindrical solid or tubular member supported by two or more wall-mountable brackets or supports. The shaft has thereabout for rotatable movement relative thereto, a series of reels or radiating fins, strips, sheets or blades. These devices when in use while providing a greater deterrent to unauthorised entry, than static barriers, nevertheless are not as efficient as they could be for the purpose.

According to the present invention, there is provided wall-mountable apparatus to deter climbing, the apparatus comprising an elongate cylindrical member supported by two or more wall-mountable brackets for mounting the member on a wall with its axis parallel thereto, said members carrying along its length a series of protrusions radiating therefrom, the radial protrusions being rotatable thereabout wherein the protrusions are in the form of fingers secured at their roots to collars journaled on said member, the collars being individually freely rotatable relative to each other and to said member, the axial distance between the fingers and the edges of each collar being predetermined.

Preferably, the fingers are elongate spikes. Preferably also, adjacent collars are spaced apart by washers freely rotatable about said member, each of said washers having about its periphery a series of stub spikes.

An embodiment of the present invention will now be described, by way of example, with reference to the accompanying drawings in which:—

Fig. 1 shows schematically an exploded perspective view of a wall-mountable apparatus according to the present invention;

Fig. 2 shows an end view of the apparatus mounted on a wall; and

Fig. 3 shows schematically a second exploded perspective view of the apparatus.

Referring to the drawings, a wall-mountable apparatus to deter climbing up and over walls to which it is secured comprises an elongate cylindrical member in the form of a rod 10 supported at both ends by end brackets 11. The end brackets 11 are similar, each having a shorter portion 11A which is wall-mountable in an upright position by screws or bolts being passed through apertures therein and anchored to the wall 9, and a longer portion 11B extend uprightly from the shorter portion 11A and inclines away from the wall at an angle of 45 degrees to the wall or 135 degrees from the shorter portion 11A. A web 11C is provided at right angles to longer portion 11B

and extends to be secured to the shorter portion 11A. At the outer end of the longer portion 11B of each end bracket 11, a boss 12 is secured to web 11C and portion 11B. The ends of rod 10 are journaled in said bosses 12. One or more brackets 15, similar to brackets 11, may be provided if two or more rods 10 are to be used, each bracket 15 having two bosses 12 in back-to-back securement on web 15C. A series of juxtaposed collars 13 are mounted on the rod 10 for low friction rotatable movement relative thereto and to each other. Each collar 13 has four equi-spaced protrusions in the form of fingers, in this embodiment constituted by elongate spikes, 14 radiating therefrom.

Each collar 13 can be spaced from its neighbour as shown in Fig. 3 by a washer 16 having about its periphery a series of four equi-spaced stub spikes 17. The fingers are individually welded at their roots to the collar as shown in Fig. 1. Alternatively, the fingers are provided in pairs each formed by limbs of a rod bent at right angles, the rod being welded to the collar 13 at its bend as shown in Fig. 3.

In each collar 13, the axial distance between the fingers 14 and the edges of the pertaining collar 13 mounting them predetermined to prevent a full hand grip to be obtained between the spikes 14, namely the distance to be approximately 6.4 cms ( $2\frac{1}{2}$  inches) being less than the average distance between a person's index finger, middle finger and ring finger.

When apparatus as above-described is mounted in a wall, the rod 10 is spaced from the wall, and with each collar 13 being rotatable independently of its neighbour, climbers are deterred from being able to climb up and over the apparatus.

In a modification, the brackets of the apparatus may be upright for mounting on a wall for the longer portions thereof to project above the top of the wall rather than at an angle to top of the wall. Also in a further modification, the brackets of the apparatus may be triangular shaped with the bottom side of the brackets secured to the wall and the bosses mounted at the apices thereof.

Two sets of four equi-spaced fingers can be provided on one collar if circumstances require.

The fingers may be flat-ended or bladed, instead of being spiked, and can be of any convenient solid cross-section such as round or square, or can be of angled cross-section.

## CLAIMS

1. A wall-mountable apparatus to deter climbing, the apparatus comprising an elongate cylindrical member supported by two or more wall-mountable brackets, for mounting the member on a wall with its axis parallel thereto, said member carrying along its length a series of protrusions, radiating therefrom, the radial protrusions being rotatable thereabout wherein the protrusions are in the form of fingers secured at their roots to collars journaled on said member, the collars being individually freely rotatable relative to each other and to said member, the

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axial distance between the fingers and the edges of each collar being predetermined.

2. An apparatus as claimed in Claim 1, wherein the fingers are elongate spikes.

5 3. An apparatus as claimed in Claim 1 or 2, wherein adjacent collars are spaced apart by washers freely rotatable about said member, each of said washers having about its periphery a series of stub spikes.

10 4. An apparatus as claimed in Claim 2, wherein

the spikes are solid and of round or square cross-section.

5. An apparatus as claimed in Claim 2, wherein the spikes are of angled cross-section.

15 6. An apparatus substantially as hereinbefore described with reference to Figs. 1 and 2 of the accompanying drawings.

7. An apparatus substantially as hereinbefore described with reference to Fig. 3 of the accompanying drawings.

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Fig. 1.

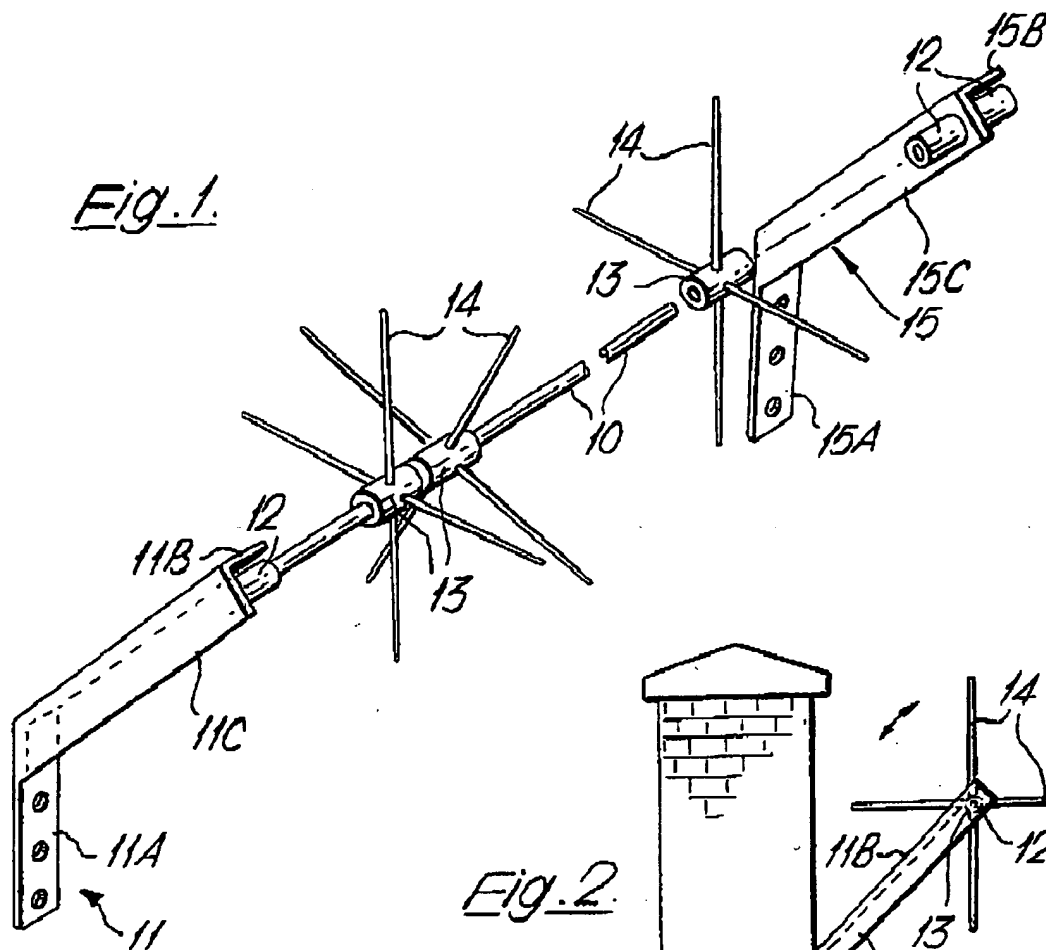
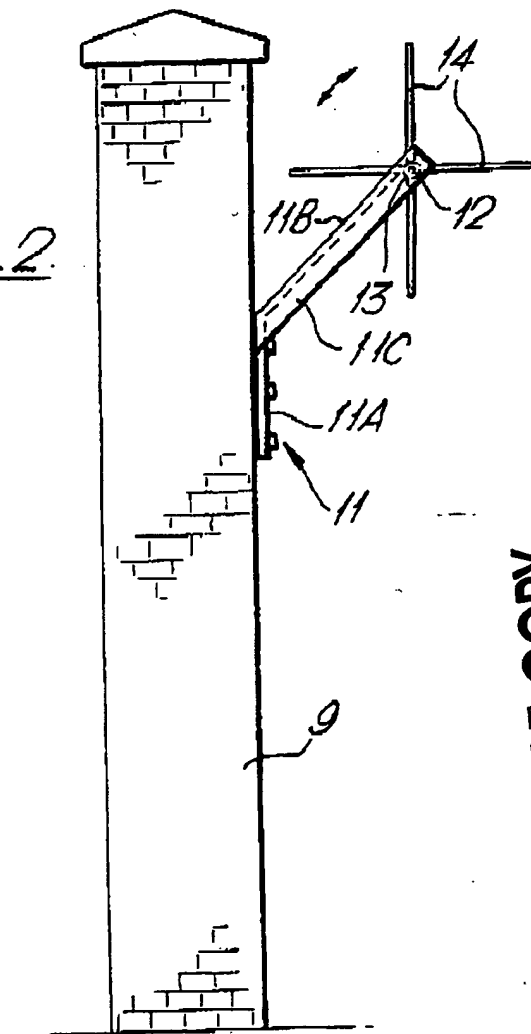


Fig. 2.



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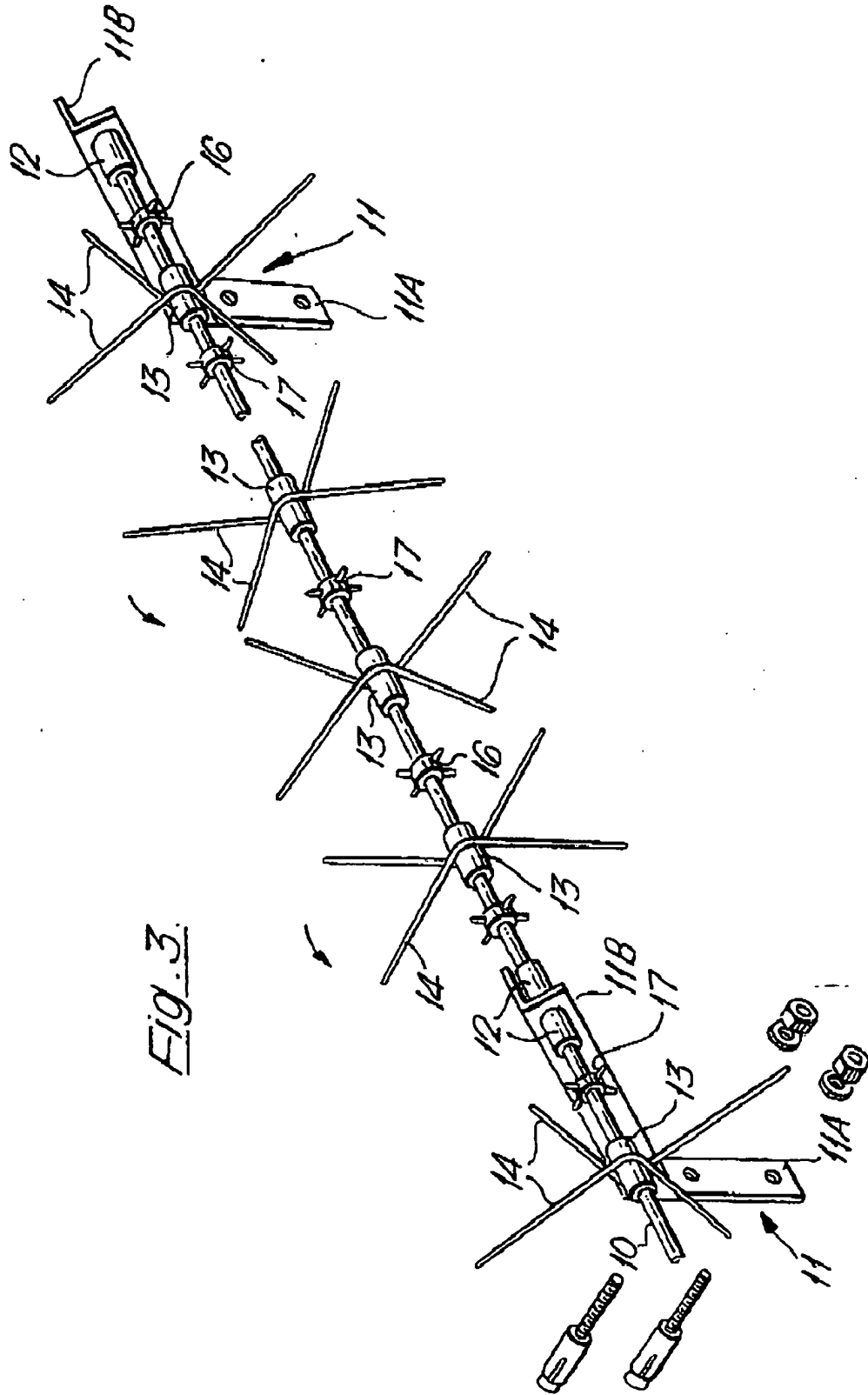


Fig. 3.

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